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Equipment for Cutting, Chamfering, Peeling Plastic Pipe

PPC Plastic pipe cutter

D

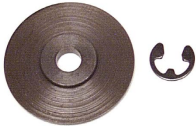


- For cutting plastic pipes d10 - d160

d-d [mm]	Article	code	USD	weight [lb]	closest inch [inch]	
10 - 63	PPC 63, s max. = 7.2 mm	790 109 001 *	94.85	1.907	1/8 - 2	
50 - 110	PPC 110, s max. = 12.7 mm	790 109 002 *	202.06	3.580	1 1/2 - 4	
110 - 160	PPC 160, s max. = 19.0 mm	790 109 003 *	241.24	4.877	4 - 6	

Replacement cutting wheels

D



- for plastic pipe cutter

d-d [mm]	Article	code	USD	weight [lb]	
10 - 63	SR 63 max. s = 7.2 mm	790 109 011 *	26.80	0.009	
50 - 110	SR 110/160 max. s = 12.7 mm	790 109 012 *	44.33	0.033	
110 - 160	SR 160 max. s = 19.0 mm	790 109 013 *	52.58	0.051	

Plastic pipe cutter

D



- The KS 355 is the ideal tool for simple right angle precision cutting of PVC, PE and PP pipes. Size range d 160 to 355 mm with a wall thickness up to 40 mm. The transport box is included.
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary.

d-d [mm]	code	USD	weight [lb]	
160 - 355	790 202 001 *	4,041.24	77.162	

KS 355 Saw blade Ø 180x30

D



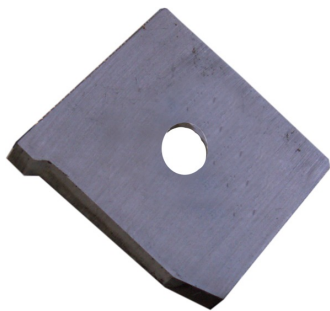
code	USD	weight [lb]	
790 202 011 *	288.66	0.992	

Manual pipe peeling tool

D



d [mm]	code	USD	weight [lb]	
20	799 300 260 *	131.96	0.192	
25	799 300 270 *	131.96	0.176	
32	799 300 280 *	131.96	0.218	
40	799 300 290 *	181.44	0.529	
50	799 300 300 *	192.78	0.538	
63	799 300 310 *	219.59	1.118	
75	799 300 320 *	247.42	1.499	
90	799 300 330 *	285.57	2.218	
110	799 300 340 *	309.28	2.987	



Replacement Blade Peeling tool blade

D

d [mm]	code	USD	weight [lb]	
20	799 300 266 *	24.74	0.029	
25	799 300 276 *	24.74	0.033	
32	799 300 286 *	24.74	0.002	
40	799 300 296 *	24.74	0.044	
50	799 300 306 *	24.74	0.042	
63	799 300 316 *	36.08	0.053	
75	799 300 326 *	36.08	0.062	
90	799 300 336 *	51.55	0.084	
110	799 300 346 *	51.55	0.101	



Chamfering Tools

D

- Chamfering tool (15° bevel) for plastic pipes (PVC, ABS, PB, PP, PE). Coated prism surface suitable for clean room applications. Fast and reliable adjustment to the different pipe diameters and wall thickness.

d-d [mm]	code	USD	weight [lb]	
16 - 200	790 309 003 *	413.40	2.258	
63 - 400	790 309 004 *	540.21	5.617	



Chamfering Tool for PPro-Seal, Fuseal PP, Fuseal 25/50 and PE-100. Sizes 1/2" - 1-1/4"

D

Size [inch]	code	USD	
½	150 309 010 *	28.77	
¾	150 309 011 *	28.77	
1	150 309 012 *	29.39	
1 ¼	150 309 013 *	29.39	

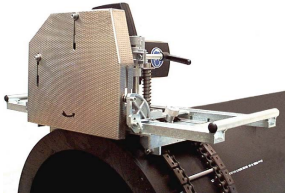


Chamfering Tool

D

Chamfering tool for PPro-Seal, Fuseal PP, and Fuseal 25/50.
Sizes 1 1/4" to 4".

code	USD	Description	
150 109 104 *	99.98	1 1/4" - 4" Chamfering Tool	



Plastic pipe cutter

- The easy handling and an optimal safety do make the saw indispensable on each construction site
- Motor hand-circular saw with chain guiding
- The machine consists of a motorized hand saw, with guide carriage and tensioning chain for each pipe diameter
- The tensioning chain is to be out around the pipe and tightened by means of the chain tensioner. The carriage is applied with the hand circular saw. The pipe is cut by moving the carriage around the pipe.
- A quick, clean and right angled cut is the result

The KS 1600 is used for cutting plastic pipes fast, cleanly and properly right-angled from diameter 500 mm up to 1600 mm with a wall thickness of max. 60 mm. For each pipe diameter, the appropriate chain length is necessary. The saw is to be put on the tensioned chain as per user manual which serves as a guiding device for the saw over a full 360° turn. The guard plate covers the saw blade also during operation and provides full protection for the user at all times. The KS 1600 basic kit consists of a circular-hand saw, 230 V / 2200 W with carriage, 2 tension chains for d560 mm and d630 mm as well as a chain tensioner. The whole equipment comes in a convenient and robust transport box. The easy handling and the optimal safety features make this tool indispensable on every building site.

Scope of delivery:

1 Circular-hand saw, 1 tensioning chain d560 mm, 1 tensioning chain d630 mm, 1 chain tensioner, 1 hex-wrench size 5, 1 hex-wrench size 6, 1 operating instruction, transport box

Technical data:

Dimension range: d500 - 1600 mm

(In combination with the respective tensioning chain)

Plug: EU-Plug

Voltage: 230 V AC

Power: 2200 Watt

Frequency: 50-60 Hz

Circular saw blade outer-Ø: 240 mm

RPM: 4100

Sound level: 104 dB (A)

Weight saw: 15.5 kg

Weight KS 1600 Basic Kit: 43.5 kg

Dimensions saw (W x H x D): 790 x 330 x 335 mm

Dimensions Transport Box: 950 x 400 x 395 mm

Type	d-d [mm]	code	USD	weight [lb]	
KS 1600 Basic Kit	500 - 1600	790 109 600 *	5,622.68	94.799	



KS 1600 Chain Holder

D

- Chain tensioner is included in the scope of delivery of the KS 1600 Basic Kit (790 109 600).

d-d [mm]	code	USD	weight [lb]	
500 - 1600	790 109 616 *	579.38	0.882	



KS 1600 Tensioning Chains

D

- Chains for d560 mm and d630 mm are included in the scope of delivery of the KS 1600 Basic Kit (790 109 600).

d [mm]	code	USD	weight [kg]	
500	790 109 605 *	508.25	5.200	

AQUATAP Installation Tools

D

Tool Box not sold separately

Number	Description	code	USD	
1-7	Complete Tool Box Kit (Includes Items 1-7)	799 530 200 *	480.41	
2	Heater Plate Protector	799 530 001 *	28.87	
3	5/8" Flare - Heater Bushing	799 530 155 *	51.55	
4	Flare Mandrel	799 530 156 *	101.03	
5	Tubing Hex Jaw Pliers	799 530 157 *	28.87	
6	Tube Cutter (KTS 125)	799 530 158 *	30.93	





Rotary Peeler RS

D

This innovative Rotary Peeler RS is designed for universal peeling at the pipe end for electrofusion couplings, tees and elbows and as well as for electrofusion saddles. Suitable for peeling PE80, PE100, PEX and PP pipes.

Features and your advantage:

Spring loaded peeling blade:Peeling quality independent of pipe ovality or tolerances

Pivoted mounted peeling blade:To compensate the shape of coiled pipe

Optimized cutting geometry:Defined chip thickness with cutting width overlap

One tool per dimension:Minimized swivel radius for peeling in narrow locations

Peeling length:No limitation of peeling length

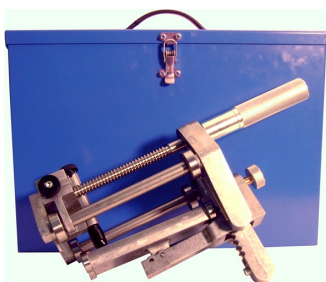
Guidance rolls:3-point-support for dimensional optimized cutting feed

Time saving:Tool is always ready for use, it can be used for the next peeling without having to set the peeling blade back in its origin position

Your advantage:Time saving and highest repeatable peeling quality at smallest rotation radius. No operator errors possible when changing dimension

Included:1 x Rotary Peeler RS, Transport case, Operating manual, Spare parts list

Article	d [mm]	code	USD	weight [lb]	
RS 40	40	790 136 001 *	Call	2.888	
RS 50	50	790 136 002 *	Call	2.888	
RS 63	63	790 136 003 *	Call	2.888	
RS 75	75	790 136 004 *	Call	3.395	
RS 90	90	790 136 005 *	Call	3.395	
RS 110	110	790 136 006	Call	3.395	
RS 140	140	790 136 008 *	Call	3.814	
RS 160	160	790 136 009 *	Call	3.814	
RS 225	225	790 136 012 *	Call	4.475	
RS 250	250	790 136 013 *	Call	5.379	



Peeling tool PT 2

D

- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.
- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.

d-d [mm]	code	USD	weight [lb]	Description	
63 - 250	799 300 752 *	Call	15.373	Size 1, peeling length 140 mm	

Peeling tool PT 4

D



- The easy-to-use peeling tools PT 4 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tools ensure a constant peeling quality on the whole peeled area and are suitable for PE80 and PE100 pipes. There is no tool service arrangement for the PT 4.
- Scope of delivery: 1 tool with exchangeable blade (4 cutting surfaces).

d [mm]	e [mm]	code	USD	weight [lb]	Description
20	1.9	799 300 704 *	Call	0.597	Pipe Insert SDR 11
25	2.3	799 300 706 *	Call	0.679	Pipe Insert SDR 11
32	3.0	799 300 708 *	Call	0.750	Pipe Insert SDR 11
40	3.7	799 300 709 *	Call	0.838	Pipe Insert SDR 11
50	4.6	799 300 710 *	Call	0.961	Pipe Insert SDR 11
63	5.8	799 300 711 *	Call	1.190	Pipe Insert SDR 11

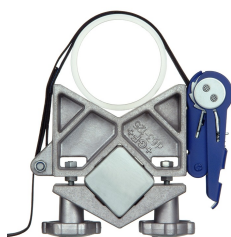
Double clamp

D



- The user-friendly Double Clamps are suitable for coupler connections. They are quickly and easily put into position and prevent pullout and pipe movements during the fusion time and cooling time.
- Scope of delivery: 1 tool consisting of 1 beam (compact), 2 V-clamps complete with ratchet and belt.

d-d [mm]	code	USD	weight [lb]
63 - 125	799 301 484 *	Call	7.729
110 - 225	799 301 486 *	Call	17.456
225 - 500	799 301 488 *	Call	32.485



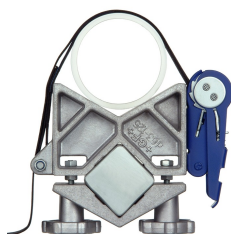
Quadruple clamp

D



- The professional Quadruple Clamps are suitable for coupler connections. They are quickly and easily put into position and ensure a stress-free fusion. They prevent pullout and pipe movements during the fusion and cooling times.
- Recommended for difficult site conditions with large installation-induced stresses.
- Scope of delivery: 1 tool consisting of 1 beam (long), 4 V-clamps complete with ratchet and belt.

d-d [mm]	code	USD	weight [lb]
63 - 125	799 301 459 *	Call	15.745
110 - 225	799 301 461 *	Call	36.354
225 - 500	799 301 463 *	Call	62.832



Electrofusion Process Times

Electrofusion	Product	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"
Electro Plus and MSA 250	PPro-Seal™	1:20	1:27	1:32	1:36	1:50	1:30					
	Fuseal®				1:20	1:30	1:40	1:55	3:10	4:00	4:00	5:00
	Fuseal 25/50™				1:26	1:39	1:52	2:10	3:55			

*All times in minutes: seconds and are approximate based in 68°F/20°C ambient temperature. These times are only for the fusion process and do not include the cooling times.

Number of Joints Possible per Cycle

Electrofusion	Product	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"
Electro Plus and MSA 250	PPro-Seal™	4	4	4	4	4	4					
	Fuseal®				4	4	4	4	4	2	2	2
	Fuseal 25/50™					4	4	4	4			

Electro Plus & Accessories

Electro Plus®

D



Advantages

- Intuitive user interface
- Multiple joint capability for speedy installations
- Integral carrying case for ease of transportation
- One-button repeat fusion cycle for same size joints
- Self-diagnostic error detection system
- Automatic compensation for ambient temperature

The Electro Plus® fusion machine can be used to join the following piping systems:
Fusel 1½-12", Fusel Squared 1½-12", Fusel 25/50 1½-6" and PPro-Seal ½-3".

This complete machine includes:
Fusion Power Unit, Hand Held Unit and the Cable Assembly.

Technical Data

Operating Temperature	14°F (-10°C) to 113°F (45°C)
Input Voltage	100-130 V AC / 200-250 V AC
Input Frequency	50Hz - 60 Hz
Output Voltage	0 – 28.5 V AC
Output Current	0-50 Amps
Power Consumption	1200 Watts max.
Power Cable Length	5ft. (1.5m)
Fusion Cable Length	18ft. (5.5m)
Remote Cable Length	20ft. (6m)
Dimensions (Wx-HxD)	22x14x10 inch
Weight	45lbs (20.5kg)

Description	code	USD	weight [lb]
Electro Plus	150 000 001 *	2,180.41	42.990



Hand Held Unit

D

Complete hand held unit with connection cable and protection case.

This is a replacement unit which can be used on any Electro Plus machine.

Description	code	USD
Hand Held Unit	150 000 003 *	382.47



Cable Assembly

D

Complete cable assembly with connector plug.

This is a replacement unit which can be used on any Electro Plus machine.

Description	code	USD
Cable Assembly	150 000 004 *	541.24



Fusion Power Unit

D

Complete fusion power unit with main power cable.
This is a replacement unit which can be used with any hand held unit and cable assembly.

Description	code	USD	
Fusion Power Unit	150 000 002 *	1,311.34	

MSA 250 & Accessories

MSA Plus 250 EX Multi Automatic Electrofusion Unit

D



Monovalent automatic electrofusion unit with barcode scanner. The MSA units with the unique inverter technology and the active cooling system for trouble-free operation from generator or mains supply. Suitable for jointing in series. The unit is robust, light and easy to use. Single push-button operation, display shows fusion time and energy consumed. Inclusive transport box, 1 pair of angle adapter clips 4.0mm, cable assembly, barcode set with continuity tester and instruction manual.

The MSA Plus 250 EX Multi can be used to join the following piping systems: PE Ø 20-400; INSTAFLEX PB Ø 125, 160, 225; Fuseal SeaDrain Ø 1½-12"; Fuseal 1½-12"; Fuseal Squared 1½-12"; Fuseal 25/50 1½-6"; and PPro-Seal.

Technical Data

Ambient temperature	14°F (-10°C) to 113°F (+45°C)
Mains voltage	180 V - 264 V AC
Mains frequency	45Hz - 65 Hz
Fusion voltage	8 - 42 (48) V AC
Fusion current	max. 80 A
Power	max. 3500 W
Protection	1 / IP 65
Mains cable	3 m
Fusion cable	3 m
Dimensions (WxHxD)	20"x15"x10"
Weight incl. cables	25.5 lbs (11.5 kg)
Display	LED 1 x 4 N, 7 Segments
Size display (WxH)	50 x 18 mm

Type	code	USD	weight [lb]	Description
MSA Plus 250 EX Multi	799 350 520 *	3,442.27	36.068	barcode scanner, transport case



Barcode Set with Continuity Tester

D

Replacement barcode set with barcode cards for the following systems: Fuseal 1-12", Fuseal 25/50 1-6" and PPro-Seal -3".

Description	code	USD	weight [lb]
Barcode Set with Continuity Tester	799 350 900 *	28.87	0.661
Continuity Tester	799 350 901 *	17.53	0.441
Operation Mode Cards MSA250 EX Multi	799 350 902 *	11.34	0.220



MSA Fusion Cables

D

Replacement MSA fusion cables 5 feet long.

Description	code	USD	weight [lb]
Single Cable	799 350 910 *	104.12	0.882
Cable Assembly	799 350 911 *	288.66	1.764



MSA Barcode Scanner

D

- Robust, handy barcode scanner with a high reading performance made for the construction site. Quick, safe and professional! Compatible with MSA 500, MSA 3000, MSA 250, 300, 350 and 400 and MSA Plus 250-400 Electrofusion control units.

code	USD	weight [lb]	Description	
799 350 419 *	396.91	0.772	Barcode scanner with pouch and instructions	



MSA Carrying Case

D

Description	code	USD	weight [lb]	
MSA Carrying Case, 20"x10"x15"	799 350 473 *	207.22	12.214	

MSA 330 & Accessories

MSA 330 Electrofusion unit with jointing data recording

D



The MSA 330 electrofusion unit combines high performance in jointing with easy and safe handling. The internal memory has a capacity of 500 jointing records, for data transfer the unit is equipped with an USB interface. The record is delivered as PDF or CSV format, both are manageable with common and free PC software applications. An intuitive operation menu guides you through the complete jointing process. For fusion data input a barcode reader pen or a scanner is connected. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time. Robust aluminum housing with convenient cable winding and handle for weight balanced transport. The unit is suitable for jointing in series. Scope of delivery: dedicated transport case, pouch for optical pen or scanner, 2 pairs of angle adapter clips 4,0 mm and 4,7 mm, operation instructions and configuration chart.

Technical Data

Ambient temperature	-10°C to +45°C
Mains voltage	180 V - 265 V AC
Mains frequency	40 Hz - 70 Hz
Fusion voltage	8 - 48 V AC
Fusion current	max. 90 A
Suggested power generator	3,5 kVA (5,0 kVA for fittings with Ø>200mm)
Protection	Class 1 / IP 54
Mains cable	4 m
Fusion cable	4 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	ca. 21,7 kg
Display	LCD (20 alphanumerical char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

Description	code	USD	weight [lb]	
Barcode scanner, transport case	790 160 005 *	4,072.16	66.139	



MSA 330 - 115 Volt Electrofusion unit with jointing data recording

The MSA 330 electrofusion unit combines high performance in jointing with easy and safe handling. The internal memory has a capacity of 500 jointing records, for data transfer the unit is equipped with an USB interface. The record is delivered as PDF or CSV format, both are manageable with common and free PC software applications. An intuitive operation menu is guiding through the complete jointing process. For fusion data input a barcode scanner is connected (manual data input configurable). The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. The unit is suitable for jointing in series. Robust aluminum housing with convenient cable rewind and handle for weight balanced transport. Fusion cable detachable with military connector. Inclusive dedicated transport case, pouch for scanner, 2 pairs of angle adapter clips 4,0 mm and 4,7 mm, operation instructions and configuration chart.

Technical Data

Ambient temperature	-10°C to +45°C
Mains voltage	90 V - 135 V AC
Mains frequency	40 Hz - 70 Hz
Fusion voltage	8 - 48 V AC
Fusion current	max. 90 A
Suggested power generator	3,5 kVA (5,0 kVA for fittings with Ø>200mm)
Protection	Class 1 / IP 54
Mains cable	10 m
Fusion cable	3 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	25 kg
Display	LCD (20 alphanumerical char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

Description	code	USD	weight [lb]	
Barcode scanner, transport case	790 160 017	Call	70.548	

Adapter

D

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with electrofusion units MSA 330 and MSA 340

Type	Description	code	USD	weight [lb]	
4.0 x 4.7mm	Adapter, white	150 000 201 *	95.85	0.03	



MSA Barcode Scanner

D

- Compatible with MSA 330 and MSA 340

code	USD	weight [lb]	Description	
150 000 202 *	420.10	0.772	Barcode scanner with pouch and instructions	

MSA 340 & Accessories

MSA 340 Traceability Electrofusion unit with GPS function

D



High performance electrofusion unit providing an entire documentation of fusion and traceability data (ISO 12176) including GPS coordinates added automatically to each fusion record. The internal memory has a capacity of 1000 jointing records, for data transfer the unit is equipped with an USB interface. The record is delivered as PDF or CSV format, both are manageable with common and free PC software applications. An intuitive operation menu guides you through the complete jointing process. For fusion data input a barcode scanner is connected. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. Robust aluminum housing with convenient cable winding and handle for weight balanced transport. Suitable for jointing in series. Rental time period programmable by the machine owner, unit blocks on expiring date, reset by password. Scope of delivery: dedicated transport case, pouch for scanner, 2 pairs of angle adapter clips 4.0mm and 4.7mm operation instructions and configuration chart.

Technical Data

Ambient Temperature -10°C to +45°C

Mains voltage 180V - 265 V AC

Mains frequency 40 Hz - 70 Hz

Fusion voltage 8 - 48 V AC

Fusion current max. 90 A

Suggested power generator 3.5 kVA (5.0 kVA for fittings with Ø>200mm)

Protection Class 1 / IP 54

Mains cable 4m

Fusion cable 4m

Interface USB (type A) for PC communication and software updates

Dimensions (WxHxD) 280 x 480 x 320 mm

Weight incl. cables ca. 21.7 kg

Display LCD (20 alphanumeric char. x 4 lines), contrast adjustment, blue background, white characters

Languages 10

Description	code	USD	weight [lb]	
barcode scanner, transport case	790 160 007 *	4,851.55	66.139	



MSA 340 - 115 Volt Traceability Electrofusion unit with GPS function

High performance electrofusion unit providing an entire documentation of fusion and traceability data (ISO 12176). GPS coordinates of fusion location added automatically to each fusion record. Optional ability of operator ID and job number recognition. The internal memory has a capacity of 1000 jointing records, for data transfer the unit is equipped with an USB interface. The record is delivered as PDF or CSV format, both are manageable with common and free PC software applications. Rental time period programmable by the machine owner, unit blocks on expiring date, reset by password. An intuitive operation menu is guiding through the complete jointing process. For fusion data input a barcode scanner is connected (manual data input configurable). The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. The unit is suitable for jointing in series. Robust aluminum housing with convenient cable rewind and handle for weight balanced transport. Fusion cable detachable with military connector.

Inclusive dedicated transport case, pouch for scanner, 2 pairs of angle adapter clips 4,0 mm and 4,7 mm, operation instructions and configuration chart.

Technical Data

Ambient temperature	-10°C to +45°C
Mains voltage	90 V - 135 V AC
Mains frequency	40 Hz - 70 Hz
Fusion voltage	8 - 48 V AC
Fusion current	max. 90 A
Suggested power generator	3,5 kVA (5,0 kVA for fittings with Ø>200mm)
Protection	Class 1 / IP 54
Mains cable	10 m
Fusion cable	3 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	ca. 25 kg
Display	LCD (20 alphanumeric char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

Description	code	USD	weight [lb]	
Barcode scanner, transport case	790 160 014 *	4,851.55	70.548	

Adapter

- Adapters for Electrofusion units with 4 mm connectors.
- Compatible with electrofusion units MSA 330 and MSA 340

Type	Description	code	USD	weight [lb]	
4.0 x 4.7mm	Adapter, white	150 000 201 *	95.85	0.03	



MSA Barcode Scanner

D

- Compatible with MSA 330 and MSA 340

code	USD	weight [lb]	Description	
150 000 202 *	420.10	0.772	Barcode scanner with pouch and instructions	

Socket Fusion Process Times*

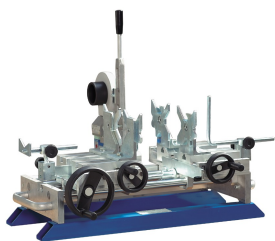
Socket Fusion	Product	16	20	25	32	40	50	63	75	90	110
MSE Handtools or SG 110	PROGEF® Standard	15	15	21	24	38	44	62	68	88	110
	PROGEF® Natural	15	15	21	24	38	44	62	68	88	
	SYGEF® PVDF	14	16	18	26	28	34	44			

*All times in seconds and are approximate based on 68°F/20°C ambient temperature. Times do not account for facing, peeling, and cleaning per the GF Fusion Training program.

SG 125 and MSE63/MSE110 Socket Fusion

For fusion jointing of PP, PE, PB and PVDF pipes and fittings

D



- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- Dimension 20 - 90
- **Base machine**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **Heater**
- Thermostatic temperature control
- High temperature accuracy over the entire heating surface
- **Additional standard equipment on the basic model**
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings. Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- V-shaped pipe support d 20 - 125 mm
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

d-d [mm]	Performance	code	USD	weight [lb]	
20 - 90	115 V/1500 W	790 310 036 *	Call	143.300	



Transportation Box SG125

D

Description	code	USD	
Transportation Box SG125	155 701 276 *	332.99	



Universal prismatic clamping device, complete

D

d-d [mm]	code	USD	weight [lb]	
20 - 125	790 310 040 *	516.49	7.275	



Backstop, complete

D

d-d [mm]	code	USD	weight [lb]	
20 - 110	790 310 012 *	172.16	1.323	



V-shaped pipe support, complete

d-d [mm]	code	USD	weight [lb]	
20 - 110	790 310 013 *	172.16	1.543	



Replacement heating element SG125

D

d-d [mm]	Description	Performance	code	USD	weight [lb]	
20 - 125	thermostatic	115 V/1500 W	790 310 046 *	894.85	5.952	



Replacement heating element SG110

D

Description	d-d [mm]	Performance	code	USD	weight [lb]	
thermostatic	20 - 110	115 V/1200 W	790 310 017 *	762.89	5.291	



MSE 63/MSE 110 Socket fusion tools

D

- for fusion jointing of PP, PE and PVDF pipes and fittings
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- T = thermostatic temperature control / E = electronic temperature control
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)

d-d [mm]	Performance	Type	code	USD	weight [lb]	
16 - 63	115 V/800 W	MSE 63 T	790 105 096 *	278.35	4.575	
16 - 110	115 V/1500 W	MSE 110 T	790 105 126 *	402.06	7.055	



MSE 63/MSE 110 - Set - Socket fusion tools

D

- High-quality, non-stick PTFE-coating with long service life
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Allen screws and key
- T = thermostatic temperature control / E = electronic temperature control
- for fusion jointing of PP, PE and PVDF pipes and fittings
- All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface

Performance	d-d [mm]	Type	code	USD	weight [lb]	
115 V/800	16 - 63	MSE 63 T	790 105 098 *	1,090.72	18.960	
115 V/1500	16 - 110	MSE 110 T	790 105 128 *	1,786.60	39.022	



Heating spigots and bushes

D

- High-quality, non-stick PTFE-coating with long service life
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)
- Always delivered in pairs (also usable for SG 100, SG 125, not for SG 160)

d [mm]	code	USD	weight [lb]	
16	799 300 155 *	80.41	0.187	
20	799 300 156 *	86.60	0.198	
25	799 300 157 *	91.75	0.340	
32	799 300 158 *	104.12	0.465	
40	799 300 159 *	114.43	0.507	
50	799 300 160 *	131.96	0.957	
63	799 300 161 *	149.48	1.310	
75	799 300 162 *	172.16	2.163	
90	799 300 163 *	229.90	3.175	
110	799 300 164 *	292.78	4.872	



Floor stand for manual fusion tools SSE/ MSE

D

code	USD	weight [lb]	
790 105 063 *	18.56	0.838	



Metal case

D

- For butt and socket fusion hand tools

Article	code	USD	weight [lb]	
MSE 63	790 105 089 *	124.40	8.818	
MSE 110	790 105 090 *	113.40	15.432	

Contact Butt Fusion Process Times*

Machine	Product	32	40	50	63	75	90	110	160	200	225	250	315	355	400	450
SG 160	PROGEF® Standard	7.00	8.00	11.00	12.00	15.00	18.00	21.00	29.00							
GF 160	PROGEF® Standard		8.00	11.00	12.00	15.00	18.00	21.00	29.00							
GF 250	PROGEF® Standard						18.00	21.00	29.00	35.00	38.00	42.00				
GF 315	PROGEF® Standard						18.00	21.00	29.00	35.00	38.00	42.00	52.00			
GF 315	PROGEF® Standard						18.00	21.00	29.00	35.00	38.00	42.00	52.00			
GF 500	PROGEF® Standard									35.00	38.00	42.00	52.00	56.00	63.00	70.00

*All times in minutes:seconds and are approximate based on 68°F/20°C ambient temperature. Times only account for heating, joining and cooling of products per the GF Fusion Training Program. GF recommends IR Plus® fusion for SYGEF® PVDF products.

MC 110 Butt Fusion Machine

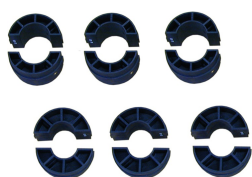
Machine MC 110, complete with electric planer

D



- Portable butt fusion machine for use in the workshop and on job sites. For fusion jointing of PP and PE pipes and fittings as well as prefabrication of segments in the size range of d 20 - 110 mm and up to SDR 11.
- Machine MC 110 complete includes: machine mounting, base machine, 2 base clamping plates (wide), base clamping plate (left narrow), electrically operated planer, thermostatic controlled heater, table clamp and transport box.
- Including transport packaging, without accessories

d-d [mm]	Performance	code	USD	weight [lb]	
20 - 110	115V/1360W	790 109 321 *	4,371.13	68.343	



Reduction clamping inserts, wide

D

- Each code number defines 1 half shell. Per wide base clamping plate 2 reduction half-shells are needed.
- 20 - 90 mm

d [mm]	code	USD	weight [lb]	
20	790 109 326 *	23.71	0.331	
25	790 109 327 *	23.71	0.306	
32	790 109 328 *	23.71	0.293	
40	790 109 329 *	23.71	0.287	
50	790 109 330 *	23.71	0.249	
56	790 109 342 *	Call	0.302	
63	790 109 331 *	23.71	0.265	
75	790 109 332 *	23.71	0.245	
90	790 109 333 *	23.71	0.220	

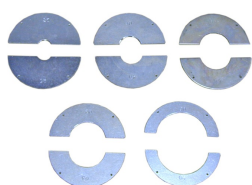


Base clamping plate, right narrow

D

- 110 mm for fitting/pipe joints
- For mounting the narrow reduction clamping inserts
- Freely adjustable (max. 15°)

d [mm]	code	USD	weight [lb]	
110	790 109 310 *	258.76	2.083	



Reduction clamping inserts, narrow

D

- Each code number defines 1 half shell. Per wide base clamping plate 2 reduction half-shells are needed.

d [mm]	code	USD	weight [lb]	
20	790 109 334 *	15.46	0.580	
25	790 109 335 *	15.46	0.615	
32	790 109 336 *	15.46	0.300	
40	790 109 337 *	15.46	0.569	
50	790 109 338 *	15.46	0.527	
56	790 109 343 *	15.46	0.254	
63	790 109 339 *	15.46	0.238	
75	790 109 340 *	15.46	0.425	
90	790 109 341 *	15.46	0.326	

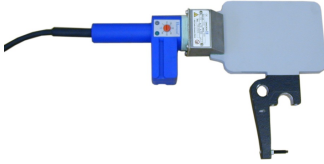


Planer, electrically operated

D

- Center of planing radial adjustable.

d-d [mm]	Performance	code	USD	weight [lb]	
20 - 110	115V/560W	790 109 324 *	1,456.70	10.803	



Heater

D

- Choice of electronic or thermostatic temperature control
- Including machine mounting
- Control lamps (power, status)
- PTFE coating

d-d [mm]	Description	Performance	code	USD	weight [lb]	
20 - 110	thermostatic	115V/800W	790 109 322 *	Call	5.732	

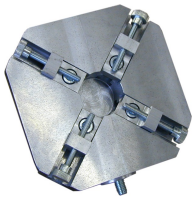


Table clamp

D

- For correct placement of heater

code	USD	weight [lb]	
790 109 315 *	72.16	1.455	



Flange adapter clamping unit

D

- For correct clamping and fusion joining of short end fittings

d-d [mm]	code	USD	weight [lb]	
25 - 110	790 109 316 *	339.18	3.594	



Replacement blades

D

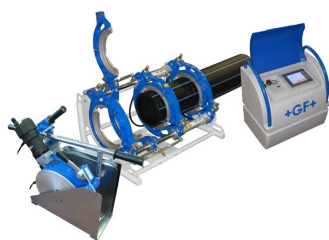
- Sharpened on both sides (1 set = 2 pieces)

Description	code	USD	weight [lb]	
short	790 118 043 *	92.78	0.099	

TM 160-250-315 CNC

Machine complete

D



- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit and the machine components of the TM TOP machines: sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories !

CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions (Relining), special materials etc.).
- Various configuration possibilities, such as cooling time reduction according to the measured ambient temperature (CTC) and automatic bead build-up phase.
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine).
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be added to each welding record by the use of the **optional** barcode scanner (790152052)
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Shock absorbing plastic housing in attractive design.
- Integrated power outlets for planer and heating element.
- Preinstalled socket for connection of the barcode scanner (Accessory).
- Oil level control and refilling without disassembling the unit.
- Two handles to carry the hydraulic unit.

Type	Performance	d-d [mm]	code	USD	weight [lb]	
TM 160 CNC	230V/2000W	40 - 160	790 150 012 *	23,445.00	275.578	
TM 250 CNC	230V/3150W	75 - 250	790 151 012 *	25,787.00	429.901	
TM 315 CNC	230V/3750W	90 - 315	790 152 012 *	29,505.15	473.994	

GF 400 CNC Butt Fusion Machine

Machine complete

D



- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit and the machine components of the GF 400 machine: sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories!



CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions, special materials etc.).
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine) and for safety reasons additionally in the CNC unit.
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Robust aluminium case with shock-absorbing plastic cover in attractive design.
- Integrated power outlets for planer and heating element.
- Easy oil-level-control and refilling without opening the unit.

Performance	d-d [mm]	Type	code	USD	weight [lb]	
400 V/5700 W	125 - 400	GF 400 CNC	790 153 001 *	30,160.82	451.948	

Reduction clamping inserts, narrow

D



- Each code number defines 1 piece of reduction clamping insert

d [mm]	code	USD	weight [lb]	
160	790 112 102 *	218.56	2.381	
200	790 112 104 *	218.56	2.083	
250	790 112 106 *	345.36	1.570	



Reduction clamping inserts, narrow

D

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	code	USD	weight [lb]	
315	790 127 111 *	386.60	4.034	



Reduction clamping inserts set

D

- 4 wide and 4 narrow clamping inserts of each dimension
- 8 wide clamping inserts d 315 mm
- Reductions in inch sizes or special diameters upon request

d-d [mm]	code	USD	weight [lb]	
125 - 355	790 127 156 *	6,064.95	66.139	



GF 400 Crane

code	USD	weight [lb]	
790 127 027 *	2,163.92	146.782	

GF 630 CNC Butt Fusion Machine

GF 630 CNC



- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.

Planer, Heating element, Hydraulic hose package, Case, Tools set

- Technical features same as for manually operated machines
- Including transport packaging, without accessories and without reduction inserts

SUVI® 400 CNC - Control unit

- This unit consists of the hydraulic and the control unit with data recording
- Automatic control of planing with even-out function
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)

Base machine

- Technical features as for manual versions
- Position measurement of the carriage (safety, process monitoring)

Type	d-d [mm]	Performance	code	USD	weight [lb]	
GF 630 CNC	315 - 630	400 V/6300 W	790 155 001	Call	1355.843	



Reduction clamping inserts set

D



- 4 wide and 4 narrow clamping inserts d 315, d 355, d 400, d 450
- 8 wide reduction inserts d 500, d 560

code	USD	weight [lb]	
790 117 021 *	12,813.40	443.129	



Reduction clamping inserts, wide

D

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

d [mm]	code	USD	weight [lb]	
315	790 116 012 *	218.56	8.153	
355	790 116 013 *	218.56	8.217	
400	790 116 014 *	218.56	8.457	
450	790 116 015 *	218.56	7.222	



Reduction clamping inserts, narrow

D

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

d [mm]	code	USD	weight [lb]	
315	790 116 020 *	218.56	7.985	
355	790 116 021 *	218.56	7.203	
400	790 116 022 *	218.56	5.529	
450	790 116 023 *	218.56	5.011	

GF 630 Crane

D

Description	code	USD	
GF 630 Crane	790 117 023 *	10,578.35	

Facing Tool Blade Sets for GF 160-630



Planer Blades set GF 160

D

- Blade has 2 cutting edges (1 set = 2 blades)

d-d [mm]	code	USD	weight [lb]	
40 - 160	790 113 056 *	165.98	0.130	



Planer Blades set GF 250

D

- Blade has 2 cutting edges (1 set = 2 blades)

d-d [mm]	code	USD	weight [lb]	
75 - 250	790 115 024 *	206.19	0.183	



Planer Blades set GF 315

D

- Blade has 2 cutting edges (1 set = 2 blades)

d-d [mm]	code	USD	weight [lb]	
90 - 315	790 112 110 *	241.24	0.123	



Planer Blades set GF 500

D

- Blade has 2 cutting edges (1 set = 2 blades)

code	USD	weight [lb]	
790 116 041 *	275.26	0.123	



Planer Blades set GF 630

D

- Blade has 2 cutting edges (1 set = 2 pieces)

code	USD	weight [lb]	
790 117 041 *	313.40	0.505	



IR-63 Plus®



IR-225 Plus®



IR-315 Plus®

IR Plus® Infrared Butt Fusion Technology

Features

- Non-contact Infrared heating
- Completely controlled and repeatable fusion process using our proven overlap system
- Minimized and defined weld bead
- Proven reliability and safe high purity fusion system
- Controlled cooling process based on ambient and bead temperature
- PCMCIA-interface for electronic downloading of fusion data
- Integrated interface for label and standard printers (hard copy printout)

Infrared (IR) Plus® Fusion Process Times*

Machine	Product	20	25	32	40	50	63	75	90	110	160	200	225	250	315
IR-63 Plus®	PROGEF® Standard	2:23	2:53	3:41	4:30	5:36	6:59								
	PROGEF® Natural PN 10	2:28	3:19	3:51	4:41	5:50	7:17								
	SYGEF® PN 16	1:48	1:48	2:32	2:32	3:23	3:27								
IR-225 Plus®	PROGEF® Standard						5:00	6:00	7:30	9:00	12:30	15:30	17:30		
	PROGEF® Natural PN 6						N/A	6:00	7:00	8:00					
	SYGEF® PN 10						-	-	3:30	3:45	4:00	5:00	5:30		
	SYGEF® PN 16						3:00	3:00	3:30	4:30					
IR-315 Plus®	SYGEF® PN 10													8:00	10:00

*All times in minutes:seconds and are approximate based on 68°F /20°C ambient temperature. Times only account for heating, joining and cooling of products per the GF Fusion Training Program.

IR63 Plus[®] Fusion Joining Machine and Accessories



IR-63 Plus[®] Fully-Equipped Machine

D

Model:

- Clamping inserts d 20-63 mm (8 pcs. per dimension)
- End caps PE d 20-63 mm (4 pcs. per dimension)
- Power supply cable 230 V (1 pcs.)
- Extension cable for remote weld device (1 pcs.)
- Extension cable for heater (1 pcs.)
- Extension cable for facing tool (1 pcs.)
- Cleaning brush No. 8 (1 pcs.)
- Hexagon key 3 mm (1 pcs.)
- Hexagon key 4 mm (1 pcs.)
- Heater protection shield (1 pcs.)
- Clamping unit extension (8 pcs.)
- Socket wrench (facing blades) (1 pcs.)
- Screw driver, Size 0 (1 pcs.)
- Accessory Tray (1 pcs.)
- Manual (1 pcs.)
- Fully-equipped fusion joining machine for welding SYGEF Standard, SYGEF Plus, PROGEF Standard, PROGEF Natural, PROGEF Plus, PE 100, PFA in dimensions d 20-63 mm with integrated remote welding unit, 2 USB interfaces, monochrome display with icons and 12 languages.
- 1-phase AC (50/60 Hz) 230 V L/N/PE
- Machine housing complete (1 pcs.)
- Heater assembly (1 pcs.)
- Remote weld device (1 pcs.)
- Facing tool (1 pcs.)
- Transport box (1 pcs.)
- Pipe stop (1 pcs.)

d-d [mm]	code	USD	weight [lb]
20 - 63	790 131 005 *	31,412.37	77.162

Power Converter

D

Description	code	USD
Power Converter 115/230V AC	790 103 095 *	1,294.85



Clamping inserts

D

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [mm]	code	USD	weight [lb]	Pieces
20	790 131 038 *	60.82	0.198	1
25	790 131 039 *	60.82	0.198	1
32	790 131 040 *	60.82	0.115	1
40	790 131 041 *	60.82	0.163	1
50	790 131 042 *	60.82	0.220	1
63	790 131 043 *	60.82	0.077	1

Clamping Inserts, IPS

D

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [inch]	code	USD	weight [lb]	Pieces	
1/4	790 131 446 *	60.82	0.126	1	
1/2	790 131 447 *	60.82	0.121	1	
3/4	790 131 448 *	60.82	0.117	1	
1	790 131 449 *	60.82	0.112	1	
1 1/2	150 131 042 *	60.82		1	
2	790 131 450 *	60.82	0.075	1	



Replacement Blades for Facing Tool

D

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 63	790 131 045 *	152.58	0.035	2	



PE Pipe End Caps

D

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d [mm]	code	USD	weight [lb]	Pieces	
20	790 131 030 *	18.56	0.004	4	
25	790 131 031 *	18.56	0.022	4	
32	790 131 032 *	23.71	0.002	4	
40	790 131 033 *	23.71	0.011	4	
50	790 131 034 *	23.71	0.011	4	
63	790 131 035 *	30.93	0.051	4	

Heater Shield

D

Description	code	USD	
Heater Shield IR63	790 131 051 *	41.24	



Extension Cable clamping carriage

D

- Extension cable for remote fusion.

d-d [mm]	code	USD	weight [kg]	Pieces	
20 - 63	790 131 047 *	458.76	1.764	1	



Extension Cable facing tool

D

- Extension cable for remote fusion.

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 63	790 131 048 *	150.52	0.966	1	



Extension Cable heater

D

- Extension cable for remote fusion.

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 63	790 131 049 *	542.27	1.691	1	

Power Cord IR63

D

Description	code	USD	
Power Cord IR63	150 131 246 *	43.30	



Pipe Stop

D

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 63	790 131 046 *	108.25	0.948	1	

Adjustment Tools

D

Description	code	USD	weight [lb]	
Allen Wrench 3mm	150 900 567 *	2.06		
Allen Wrench 4mm	790 131 264 *	8.25	0.441	
T-10 Torx Wrench	790 131 129 *	8.25	0.004	

IR-110 Plus® Fusion Joining Machine and Accessories

IR-110 Plus Fully-Equipped Machine

D

Model:

- 1-phase AC (50/60 Hz) 230 V L/N/PE
- Machine housing complete (1 pcs.)
- Heater and facing tool assembly (1 pcs.)
- Transport box (1 pcs.)
- Pipe stop (1 pcs.)
- Clamping inserts d 20-90 mm (8 pcs. per dimension)
- End caps PE d 20-110 mm (4 pcs. per dimension)
- Power supply cable 230 V (1 pcs.)
- Cleaning brush No. 8 (1 pcs.)
- Hexagon keys 4 mm (1 pcs.), 5 mm (1 pcs.), 6 mm (1 pcs.)
- Socket wrench (facing blades) (1 pcs.)
- Accessory Tray (1 pcs.)
- Manual (1 pcs.)
- Fully-equipped fusion joining machine for welding SYGEF® Standard, SYGEF® Plus, PROGEF® Standard, PROGEF® Natural, PROGEF® Plus, PE 100 (PFA/ECTFE on request) in dimensions d 20-110 mm, 2 USB interfaces, monochrome display with icons and 12 languages.



d-d [mm]	code	USD	weight [lb]	
20 - 110	790 132 001 *	45,020.62	165.347	

Clamping inserts

D



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [mm]	code	USD	weight [lb]	Pieces	
20	790 132 051 *	92.78	0.238	1	
25	790 132 052 *	92.78	0.234	1	
32	790 132 053 *	92.78	0.229	1	
40	790 132 054 *	92.78	0.220	1	
50	790 132 055 *	92.78	0.209	1	
63	790 132 056 *	92.78	0.187	1	
75	790 132 057 *	92.78	0.192	1	
90	790 132 058 *	92.78	0.141	1	

Clamping inserts PFA

D



- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [inch]	code	USD	weight [lb]	Pieces	
1/4	790 132 062 *	130.93	0.240	1	
1/2	790 132 063 *	130.93	0.236	1	
3/4	790 132 064 *	130.93	0.234	1	
1	790 132 065 *	130.93	0.227	1	
2	790 132 066 *	130.93	0.194	1	



Replacement Blades for Facing Tool

D

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 110	790 132 061 *	202.06	0.015	2	



PE Pipe End Caps

D

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d [mm]	code	USD	weight [lb]	Pieces	
20	790 131 030 *	18.56	0.004	4	
25	790 131 031 *	18.56	0.022	4	
32	790 131 032 *	23.71	0.002	4	
40	790 131 033 *	23.71	0.011	4	
50	790 131 034 *	23.71	0.011	4	
63	790 131 035 *	30.93	0.051	4	
75	790 133 036 *	34.02	0.209	4	
90	790 133 037 *	34.02	0.243	4	
110	790 133 038 *	42.27	0.397	4	



Pipe Stop

D

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 110	790 132 059 *	261.86	1.543	1	

IR-225 Plus® Fusion Joining Machine and Accessories



IR-225 Plus Fully-Equipped Machine with HP Working Table (HP = High Purity)

D

Model:

- Movable clamping units (1 pcs.)
- Clamping inserts d 63-225 mm (8 pcs. per dimension)
- End caps PE d 63-225 mm (4 pcs. per dimension)
- Transportation lock (1 pcs.)
- Combination ring /open-jaw wrench 13 mm (1 pcs.)
- Cleaning brush (1 pcs.)
- Connecting cable 400 V - 230 V (1 pcs.)
- Ball for lever (1 pcs.)
- Manual (1 pcs.)
- Fully-equipped fusion jointing machine for welding SYGEF Standard, SYGEF Plus, PROGEF Standard, PROGEF Natural, PROGEF Plus, PE 100 in dimensions d 63-225 mm, 2 USB interfaces, monochrome display with icons and 12 languages.
- 1-phase AC (50/60 Hz) 230 V L/N/PE or 3-phase AC (50/60 Hz) 400 V/230 V L1/L2/L3/N/PE
- Machine base (1 pcs.)
- Facing tool (1 pcs.)
- Heater assembly (1 pcs.)
- Working table, HP (1 pcs.)
- Pipe stop (1 pcs.)
- Hexagon key 5 mm (1 pcs.)
- Hexagon key 6 mm (1 pcs.)

d-d [mm]	code	USD	weight [lb]	
63 - 225	790 133 009 *	64,313.40	998.694	



HP Stainless Steel Work Table and Transportation Container

D

- Multifunction working table for the IR-225 Plus® fusion joining machine with two integrated drawer. Especially for the use in clean room environment. The working table is made of steel with a stainless steel table.

code	USD	weight [lb]	Pieces	
790 133 021 *	6,350.52	485.017	1	



Pipe Clamp Inserts

D

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [mm]	code	USD	weight [lb]	Pieces	
63	790 133 026 *	158.76	1.700	1	
75	790 133 027 *	158.76	1.647	1	
90	790 133 028 *	158.76	1.523	1	
110	790 133 029 *	158.76	1.420	1	
160	790 133 032 *	158.76	1.323	1	
200	790 133 033 *	158.76	1.543	1	
225	790 133 034 *	158.76	0.595	1	



Pipe Clamp Inserts, IPS

D

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [inch]	code	USD	Pieces	
2	150 900 442 *	261.86	1	
3	150 900 443 *	261.86	1	
4	150 900 444 *	261.86	1	
6	150 900 445 *	261.86	1	
8	150 900 446 *	261.86	1	



Replacement Blades for Facing Tool

D

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d [mm]	code	USD	weight [lb]	Pieces	
63 - 225	790 133 046 *	355.67	0.276	2	

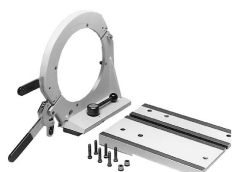


PE Pipe End Caps

D

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d [mm]	code	USD	weight [lb]	Pieces	
63	790 131 035 *	30.93	0.051	4	
75	790 133 036 *	34.02	0.209	4	
90	790 133 037 *	34.02	0.243	4	
110	790 133 038 *	42.27	0.397	4	
160	790 133 041 *	62.89	0.467	4	
200	790 133 042 *	100.00	0.992	4	
225	790 133 043 *	164.95	0.805	4	



Adjustable Clamping Station left

D

- The movable, external clamping unit ensure high operating convenience. Short pipe pieces can be clamped on both sides.
- Included in the delivery when a new IR-225 Plus® is ordered.
- Previous IR 225 fusion jointing machines can be upgraded.

d-d [mm]	code	USD	weight [lb]	Pieces	
63 - 225	790 133 061 *	1,824.74	23.589	1	



Adjustable Clamping Station right

D

- The movable, external clamping unit ensure high operating convenience. Short pipe pieces can be clamped on both sides.
- Included in the delivery when a new IR-225 Plus® is ordered.
- Previous IR 225 fusion joining machines can be upgraded.

d-d [mm]	code	USD	weight [lb]	Pieces	
63 - 225	790 133 062 *	1,824.74	22.487	1	



Pipe Stop

D

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d [mm]	code	USD	weight [lb]	Pieces	
63 - 225	790 133 047 *	73.20	0.331	1	

Adjustment Tools

D

Description	code	USD	weight [lb]	
Allen Wrench 5mm	24387005 *	4.12		
Allen Wrench 6mm	790 101 238 *	10.31	0.176	
T-25 Torx Wrench	790 133 577 *	13.40	0.020	
Open Wrench 13mm	790 133 140 *	24.74	0.110	

Upgrade Programs for IR Plastic Fusion Joining Machines



IR 63 Plus Upgrade

D

In order to give our existing IR-Plus customers the full benefit of the advantages we offer a modification kit which enables a reconstruction of all existing IR-Plus machines.

The following modifications are included:

- 2 USB interfaces
- Monochrome display with icons
- New navigation panel
- operator guidance in 12 languages

The upgrade of the new IR-Plus components will be executed by Georg Fischer service centres in the USA/Tustin, Singapore and CSO Schaffhausen.

Type	code	USD	weight [lb]	
IR-63 Plus	790 131 124 *	8,544.33	1.102	

IR Plus Upgrade Program

D

Description	code	USD	weight [lb]	
Left Side Adjustable Clamping Station	790 131 110 *	1,311.34	5.952	
Right Side Adjustable Clamping Station	790 131 109 *	1,385.57	4.828	



Modification Kit

D

In order to give our existing IR-Plus customers the full benefit of the advantages we offer a modification kit which enables a reconstruction of all existing IR-Plus machines.

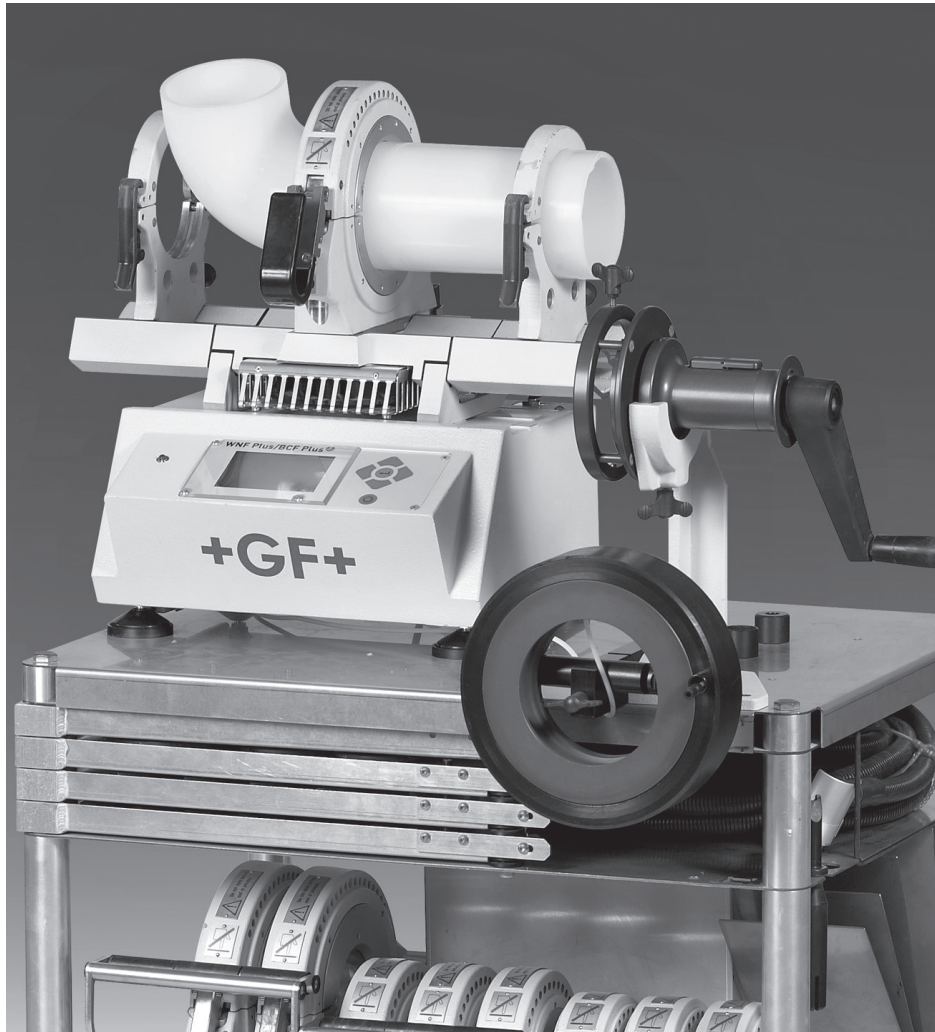
The following modifications are included:

- 2 USB interfaces
- Monochrome display with icons
- New navigation panel
- operator guidance in 12 languages

The upgrade of the new IR-Plus components will be executed by Georg Fischer service centres in the USA/Tustin, Singapore and CSO Schaffhausen.

Type	code	USD	weight [lb]	
IR-225 Plus	790 133 124 *	8,659.79	14.661	

Bead and Crevice Free (BCF®) Plus Fusion



Evolution of Innovation

Unsurpassed fusion quality

- No beads
- No crevices
- No transitions
- No dead legs and no microorganic deposits
- Very high weld strength
- Very little stress in the fusion zone, therefore less prone to stress cracking
- Controlled and secured manufacturing processes
- Globally accepted certification training for quality control personnel and installers

BCF® Plus Fusion Process Times*

Machine	Product	20	25	32	40	50	63	75	90	110
BCF® Plus	PROGEF® Natural PN 6							13:00	17:00	24:00
	PROGEF® Natural PN 10	6:00	7:00	9:00	11:00	14:00	20:00	16:00	21:00	30:00
	SYGEF® PN 10								15:00	20:00
	SYGEF® PN 16	7:00	7:00	10:00	10:00	12:00	13:00	18:00	24:00	36:00

*All times in minutes:seconds and are approximate based on 68°F/20°C ambient temperature. Times only account for heating and cooling of products per the GF Fusion Training Program.

BCF Plus Plastic Fusion Joining Machine

BCF® Plus fully equipped machine d 20 - 63 mm

D



Fully-equipped machine for bead and crevice free jointing of SYGEF Standard, SYGEF Plus, PROGEF Natural of the dimensions d 20-63 mm with integrated remote welding unit, 2 USB interfaces, monochrome display with icons and 12 languages.

Supply:

1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) incl. remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Heating stations d 20-63 mm (6 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small d 20-63 mm (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.), air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Manual (1 pcs.)

d-d [mm]	code	USD	weight [lb]	
20 - 63	790 121 002 *	51,958.76	337.307	



BCF® Plus fully-equipped machine d 20-110 mm

D

Fully-equipped machine for bead and crevice free jointing of SYGEF Standard, SYGEF Plus, PROGEF Natural of the dimensions d 20-110 mm with integrated remote welding unit.

Supply:

1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) incl. remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Heating stations d 20-110 mm (9 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Clamping units big (2 pcs.) with clamping inserts d 75-110 mm (12 pcs.)
- Adapter for clamping unit d 75-110 mm (2 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool big (1 pcs.) with facing inserts d 75-110 mm (3 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small d 20-63 mm (2 pcs.)
- Supporting tools big d 75-110 mm (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.), air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Manual (1 pcs.)

d-d [mm]	code	USD	weight [lb]	
20 - 110	790 121 001 *	63,505.15	414.469	

BCF® Plus large dimension package d 75-110 mm

D

- This package is necessary to complete BCF Plus machines which are only equipped for small dimensions d 20-63 mm.
- **Delivery includes:**
- Clamping units big (2 pcs.) with clamping inserts d 75-110 mm (12 pcs.)
- Facing tool big (1 pcs.) with facing inserts d 75-110 mm (3 pcs.)
- Supporting tools tall (2 pcs.)
- Adapter for clamping unit d 75-110 mm (2 pcs.)
- Heater heads not included

d-d [mm]	code	USD	weight [lb]	
75 - 110	790 121 022 *	5,657.73	17.873	



BCF® Plus Heating stations

D

d [mm]	code	USD	weight [lb]	Pieces	
20	790 121 111 *	2,828.87	3.968	1	
25	790 121 112 *	2,886.60	4.012	1	
32	790 121 113 *	2,886.60	4.167	1	
40	790 121 114 *	3,002.06	5.282	1	
50	790 121 115 *	3,117.53	5.291	1	
63	790 121 116 *	3,232.99	4.740	1	
75	790 121 117 *	4,041.24	7.937	1	
90	790 121 118 *	4,041.24	7.937	1	
110	790 121 119 *	4,156.70	7.760	1	



BCF® Bladder for SYGEF® PVDF

D

- Only suitable for welding SYGEF® PVDF and not for PROGEF® Natural. **Silver tip.**

d [mm]	code	USD	weight [lb]	Pieces	
20	790 122 041 *	113.40	0.031	1	
25	790 122 042 *	113.40	0.044	1	
32	790 122 043 *	120.62	0.082	1	
40	790 122 044 *	120.62	0.172	1	
50	790 122 045 *	136.08	0.291	1	
63	790 122 046 *	152.58	0.304	1	
75	790 121 047 *	289.69	0.448	1	
90	790 121 048 *	301.03	0.450	1	
110	790 121 049 *	327.84	1.217	1	



BCF® Plus Bladder for PROGEF® Natural Polypropylene

D

- Only suitable for welding PROGEF® Natural. **Blue tip.**

d [mm]	code	USD	weight [lb]	Pieces	
20	790 122 091 *	138.14	0.084	1	
25	790 122 092 *	138.14	0.046	1	
32	790 122 093 *	147.42	0.088	1	
40	790 122 094 *	147.42	0.110	1	
50	790 122 095 *	170.10	0.231	1	
63	790 122 096 *	192.78	0.304	1	
75	790 121 047 *	289.69	0.448	1	
90	790 121 048 *	301.03	0.450	1	
110	790 121 049 *	327.84	1.217	1	

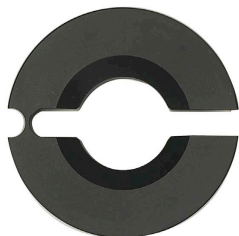


BCF® Plus Facing Tool

D

- Inclusive crank handle, mounting material and clamping inserts. Suitable for SYGEF (PVDF) as well as PROGEF Natural.

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 63	790 121 052 *	1,962.89	3.086	1	
75 - 110	790 121 053 *	2,540.21	6.614	1	



BCF® Plus Facing Tool Inserts

D

- These dimension-specific parts are inserted into the facing tool, in order to be able to face the end of the pipes smoothly and parallel.

d [mm]	code	USD	weight [lb]	Pieces	
20	790 121 061 *	126.80	0.353	1	
25	790 121 062 *	126.80	0.331	1	
32	790 121 063 *	126.80	0.291	1	
40	790 121 064 *	126.80	0.276	1	
50	790 121 065 *	126.80	0.220	1	
63	790 121 066 *	126.80	0.110	1	
75	790 121 067 *	173.20	0.661	1	
90	790 121 068 *	173.20	0.441	1	
110	790 121 069 *	173.20	0.198	1	



BCF® Plus Facing Tool Mounting Plate

D

- To attach facing tool on workbench

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 110	790 121 055 *	577.32	2.646	1	



BCF® Plus Clamp Inserts

D

d [mm]	code	USD	weight [lb]	Pieces	
20	790 131 038 *	60.82	0.198	1	
25	790 131 039 *	60.82	0.198	1	
32	790 131 040 *	60.82	0.115	1	
40	790 131 041 *	60.82	0.163	1	
50	790 131 042 *	60.82	0.220	1	
63	790 131 043 *	60.82	0.077	1	
75	790 121 036 *	85.57	0.315	1	
90	790 121 037 *	85.57	0.209	1	



BCF® Plus Hose Reel

D

- For the clean and professional storage of the air hose.

d [mm]	code	USD	weight [lb]	Length [m]	Pieces	
4	790 121 151 *	646.39	2.456	11	1	



BCF® Plus Hose

D

d [mm]	code	USD	weight [lb]	Length [m]	
4	790 122 087 *	32.99	0.267	11	

BCF Air Hose Reducer

D

Size [mm]	code	USD	
4 x 6	790 122 103 *	15.46	



BCF® Plus Supporting Tool

D

d-d [mm]	code	USD	weight [lb]	Pieces	
20 - 63	790 121 072 *	461.86	1.195	1	
75 - 110	790 121 073 *	635.05	2.077	1	



BCF® Plus Bladder Removal Tool

D

code	USD	weight [lb]	Pieces	
790 121 075 *	126.80	0.174	1	



Modification Kit

D

In order to give our existing BCF Plus customers the full benefit of the advantages we offer a modification kit which enables a reconstruction of all existing BCF Plus machines.

The following modifications are included:

- 2 USB interfaces
- Monochrome display with icons
- New navigation panel
- operator guidance in 12 languages

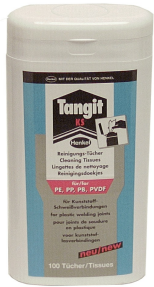
The upgrade of the new BCF Plus components will be executed by Georg Fischer service centres in the USA/Tustin, Singapore and CSO Schaffhausen.

Type	code	USD	weight [lb]	
BCF Plus	790 121 124 *	8,775.26	1.102	

Accessories for IR and BCF Plastic Fusion Joining Machines

Tangit KS-Cleaning Tissues

D



- Wet Tangit cleaning tissues to clean the fusion faces
- One box contains 100 tissues

code	USD	weight [lb]	
799 298 024 *	25.77	0.734	



IR Plus® Win Weld Program

D

- The PC data transfer software makes it possible to manage and evaluate easily the recorded fusion data as required.
- incl. Record card / USB stick

#	code	USD	weight [lb]	Pieces	
WIN 2000/XP	790 131 471 *	750.52	0.331	1	
WIN 95/98/Me	790 131 472	Call	0.485	1	



BCF® Plus Win-Weld Program

D

- incl. Record card / USB stick
- The PC data transfer software makes it possible to manage and evaluate easily the recorded fusion data as required.

#	code	USD	weight [lb]	Pieces	
WIN 2000/XP	790 121 471 *	750.52	0.176	1	
WIN 95/98/Me/NT	790 121 472	Call	0.485	1	

Rental Program

Electro Plus

D



- Prices are daily, prorated by calendar day, billed by the end of the month
- Complete Electro Plus Fusion Machine

d-d [inch]	Description	code	USD	
½ - 12	Electro Plus	R150000001B	12.75	



MSA250

D

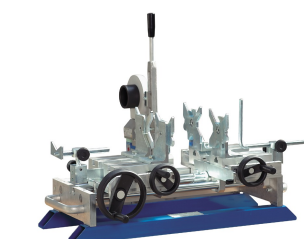
- Prices are daily, prorated by calendar day, billed by the end of the month
- Includes Cable Assembly, Bar Code Set with Continuity Tester and Carrying Case

d-d [inch]	Description	code	USD	
½ - 12	MSA250 SE, 115V AC	R799350500B	12.75	
½ - 12	MSA250 EX Multi, 230V AC	R799350520B	12.75	

MSA 330/340

- Prices are daily, prorated by calendar day, billed by the end of the month
- Includes Cable Assembly, Bar Code Set with Continuity Tester and Carrying Case

Description	code	USD	
MSA 330 230V	R790160005B	13.00	
MSA 340 230V	R790160012B	13.00	



SG110/SG125 Socket Fusion Machines

D

- Prices are daily, prorated by calendar day, billed by the end of the month
- Rental does not include heater bushings or peeling tools; these items must be purchased separately

d-d [mm]	Description	code	USD	
16 - 110	SG110 Socket Fusion Machine	R790310003B	27.32	
20 - 90	SG125 Socket Fusion Machine	R790310036B	27.32	



Contact Butt Fusion Machines

D

- Prices are daily, prorated by calendar day, billed by the end of the month
- The GF315 is equipped with an automatic heater

d-d [mm]	Description	code	USD	
20 - 110	MC110	R790109321B	Call	
40 - 160	TM160	R790114061B	51.00	
75 - 250	GF250	R790115030B	69.21	
90 - 315	GF315 CNC	R790112030B	94.71	
200 - 500	GF500	R790116040B	112.92	
315 - 630	TM 630	R790117069B	124.57	



Type 515 Diaphragm Valve Assemble/Disassemble Tool

D

Size [inch]	code	USD	Rental code	USD	
1	150 515 001	Call	R150515001B	Call	
1 ¼	150 515 002	Call	R150515002B	Call	
1 ½	150 515 003	Call	R150515003B	Call	
2	150 515 004	Call	R150515004B	Call	



IR Plus Machines

D

- Prices are daily, prorated by calendar day, billed by the end of the month
- A power converter (115/230V AC) is included with the IR63 and IR110 machine

d-d [mm]	Description	code	USD	
20 - 63	IR63 Plus	R790131005B	76.49	
20 - 63	IR 63 with PFA Software and 1/4-2" inserts	R155131005B	87.42	
20 - 110	IR110 Plus	R790132001B	91.07	
63 - 225	IR225 Plus	R790133009B	100.17	
250 - 315	IR315 Plus	R790134001B	123.85	



BCF Plus Machine

D

- Prices are daily, prorated by calendar day, billed by the end of the month
- Rental includes facing tool and remote head. Rental does not include bladders and air hose which must be purchased separately.

d-d [mm]	Description	code	USD	
20 - 63	BCF Plus	R790121002B	87.42	
75 - 110	BCF Plus Extension Package	R790121022B	7.29	



Pipe Cutter Tools

D

- Prices are daily, prorated by calendar day, billed by the end of the month
- Rental does not include cutting blades, which must be purchased separately

d-d [mm]	Description	code	USD	
110 - 250	PPC 250	R790201002B	20.96	
110 - 250	PPC 250 HP	R790201011B	16.39	
160 - 355	KS 355	R790202001B	20.96	
315 - 500	KS 1600	R790109601B	30.96	



COOL-FIT® Pipe Calibration Tool

D

- including transportation case

Model:

- To calibrate pipe inner diameters of COOL-FIT pipes

d-d [mm]	code	USD	weight [lb]	closest inch [inch]	
140 - 225	R790205001B *	12.75	41.678	5 - 8	